

Appl. No. 10/734,462
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Reply to Office action of July 17, 2006

Remarks:

Reconsideration of the application is requested.

Initially, as explained to the Examiner today, it is noted that the Response filed on September 18, 2006, contained some errors. For example, some text was supposed to have been removed and some text was supposed to have been included. This Supplemental Response, therefore, replaces and supersedes the Response filed on September 18, 2006.

Claims 1 to 109 remain in the application. Claims 1 to 6, 10 to 21, 24 to 29, 40 to 60, 65 to 67, 70 to 72, 75 to 77, 80 to 82, 85 to 87, 90 to 92, and 95 to 97 are subject to examination and claims 7 to 9, 22, 23, 30 to 39, 61 to 64, 68, 69, 73, 74, 78, 79, 83, 84, 88, 89, 93, 94, 98 to 109 have been withdrawn from examination.

Restriction Requirement

The Examiner is correct with regard to the traversal of claims 100, 101, 103, 105, 106, and 108 and, therefore, the traversal of these claims is hereby withdrawn.

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Drawings

On page 2 of the above-identified final Office action, the drawings have been objected to. More specifically, the Examiner states that "the support member connected to the graft without touching the stents or touching one of the stents must be shown."

The Examiner, again, did not specify which claims these features relate to but it is assumed that the objection relates to claims 26, 27, and 28:

26. The vascular repair device according to claim 25, wherein said support member is connected to said graft body without touching said inner stents.

27. The vascular repair device according to claim 25, wherein said support member is connected to said graft body to touch at least one of said inner stents.

28. A vascular repair device, comprising:

a tubular graft body having first and second ends;

a structural framework having at least three stents, two of said stents being connected to said tubular graft body adjacent said first end, said two stents being separated from one another on said graft body to define an outer stent and an inner stent, a third of said stents being connected to said tubular graft body adjacent said second end; and

a longitudinal support member having two ends and being connected to said graft body between said inner stent and said third stent without touching said inner stent and said third stent.

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It is respectfully believed that FIG. 1 already shows these features. First, it is noted that the inner stents of claims 25 to 28 can be any of the stents between lines 52 and 52' in FIG.

1. Page 24, lines 23 and 24, of the specification of the instant application provides that the "stents 20 are sewn either to the exterior or interior surfaces of the graft sleeve 10."

Further, page 35, lines 12 to 16, provides that the "longitudinal support member 40 is, preferably, sewn to the graft sleeve 10 **in the same way as the stents 20**. However, the longitudinal support member 40 **is not sewn directly to any of the stents 20** in the proximal portions of the graft. **In other words, the longitudinal support member 40 is independent of the proximal skeleton formed by the stents 20.**" (Emphasis added by applicants.) It is respectfully noted that FIG. 1 illustrates the stents being sewn on the outside or the inside of the graft sleeve and the support member 40 also being sewn on either the outside or the inside of the graft sleeve. This support member is not sewn directly to any of the stents. Therefore, at least 8 combinations of the stent-to-graft sleeve and support member-to-graft sleeve are possible and are all illustrated in FIG. 1.

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Therefore, applicants respectfully believe that all of the features are illustrated in the drawings and no new drawing figure is needed.

Substantive Rejections Under Section 102 and 103

In the first paragraph on page 3 of the above-identified Office action, claims 1, 2, 5, 6, 10, 11, 14, 15 to 17, 20, 21, 24 to 29, 40 to 42, 44 to 47, 49, 51, 55, 57, 59, 65 to 67, 70 to 72, 75 to 77, 85 to 87, 90 to 92, and 95 to 97 have been rejected as being fully anticipated by United States Patent Publication No. 2003/883,005 to Van Schie et al. (hereinafter "Van Schie") under 35 U.S.C. § 102.

Before discussing the prior art in detail, it is believed that a brief review of the invention as claimed, would be helpful.

Claim 1, as amended, calls for, *inter alia*, a vascular repair device, including:

a tubular graft body having a longitudinal axis; and
a curved longitudinal support member having a centerline parallel to the longitudinal axis and being substantially symmetrical with respect to the longitudinal axis.

Claim 15, as amended, calls for, *inter alia*, a vascular repair device, including:

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a tubular graft body having a longitudinal axis;

a structural framework having at least two stents connected to the tubular graft body; and

a curved longitudinal support member connected to the graft body independent of the structural framework, having a centerline parallel to the longitudinal axis, and being substantially symmetrical with respect to the longitudinal axis.

The symmetry of the support member in claims 1 and 15 is with respect to the longitudinal axis, in other words, the centerline. Symmetry in the context of the present application is defined as having a portion of the support member that is not always along the centerline thereof -- in other words, the support member 40 of the invention of the present application has portions at a distance from the centerline and those portions are symmetrical with respect to the longitudinal axis. The explanation of symmetry is set forth clearly in the specification.

Patent law permits appellants to be their own lexicographers. See, i.e., Fromson v. Advance Offset Plate, Inc. et al., 219 U.S.P.Q. 1137, 1140 (Fed. Cir. 1983), and Multiform Desiccants, Inc. v. Medzam, Ltd., 45 USPQ2d 1429 (Fed. Cir. 1998). With such authorization, appellants defined the meaning of "centerline" and "symmetrical" in the instant application as they are used in the

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claims. Specifically, on page 35, lines 1 to 11, applicants indicated, for example, that the "curved longitudinal support member 40 has a centerline 45 (parallel to the longitudinal axis 11 of the graft sleeve 10 halfway between the first and second degrees 41, 43 on the graft sleeve 10)." The second term is also defined with respect to the centerline, as defined in the specification, for example, at page 10, lines 23 to 24, page 15, lines 20 to 24, page 35, lines 6 to 11.

Based upon this authority, the Examiner's contention on page 5, lines 4 to 6, that this term is merely a relative degree -- in complete contravention of applicants' defined meaning -- can find no basis for support and must be rejected.

In complete contrast to the curved supporting member of the invention that is substantially symmetrical to the centerline, Van Schie always has its supporting material 8 along a single axis with no deviation therefrom -- in other words, the Van Schie support member is straight and extends in a straight line along the longitudinal axis of the stent. See Van Schie at FIGS. 1 and 2 and paragraph 0045 (Note: anchor wire 70 in FIG. 7 is removed from the stent as set forth in paragraph 0056).

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Thus, Van Schie cannot be said to anticipate the features of claims 1 or 15.

Claim 16, as originally supplied, calls for, *inter alia*, a vascular repair device, including:

a tubular graft body;

a longitudinal support member having two ends, at least one of the ends having a curved longitudinal extremity.

This claim provides that the end of the support member is curved.

The examiner contends that the ends 9, 10 are "rounded" and, therefore, the material 8 is has a "curved longitudinal extremity." There is no disclosure or suggestion in Van Schie to support this conclusion, however. In fact, only the opposite conclusion can be supported. Van Schie provides that reference numerals 9 and 10 point to the separate "fastening" and "joining" devices that connect the elastic material 8 to the prosthesis. Accordingly, the features described with numerals 9 and 10 are not a part of the material 8. Instead, they are separate and cannot be considered as the material 8.

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No embodiment of the supporting feature of Van Schie has a longitudinal extremity that is curved. Thus, Van Schie cannot be said to anticipate the features of claim 16.

Claims 20, 25, and 28 have similar features that will not be repeated below. Claim 20, as originally supplied, calls for, *inter alia*, a vascular repair device, including:

a tubular graft body having a proximal end and a distal end;

a structural framework having at least two pairs of stents each respectively connected to the graft body adjacent the proximal end and the distal end, the stents of each of the pairs of stents being separated from one another at the graft body to define a respective outer stent and a respective inner stent; and

a longitudinal support member connected to the graft body and extending between:

at least the inner stent of a first of the two pairs of stents; and

at least the outer stent of a second of the two pairs of stents.

Claim 25, as originally supplied, calls for, *inter alia*, a vascular repair device, including:

a curved longitudinal support member having two ends and being connected to the graft body between both of the inner stents of the two pairs of stents.

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Claim 28, as originally supplied, calls for, *inter alia*, a
vascular repair device, including:

a structural framework having two stents connected to a
tubular graft body adjacent a first end to define an outer
stent and an inner stent and a third stent connected to the
tubular graft body adjacent a second end; and

a longitudinal support member connected to the graft body
between the inner stent and the third stent without
touching the inner stent and the third stent.

Simply put, the support member of the present invention **ends
prior to** at least one stent of the structural framework.

Van Schie discloses no embodiment where a longitudinal member
extends only between the inner stents or the outer stents. In
every Van Schie embodiment, the longitudinal member extends past
at least a part of the extremity stents. With regard to claim
25, Van Schie does not show (or even suggest) having a
longitudinal support member extending no further than the two
inner stents of the two pairs of stents. With regard to claim
28, Van Schie does not show or suggest a longitudinal support
member extending no further than one of the two inner stents on
one end and a third stent on the other end. Thus, Van Schie
cannot be said to anticipate the features of claims 20, 25, or
28.

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It is accordingly believed to be clear that no reference fully anticipates the features of claims 1, 15, 16, 20, 25, or 28. Claims 1, 15, 16, 20, 25, and 28 are, therefore, believed to be patentable over the art. The dependent claims are believed to be patentable as well because they all are ultimately dependent on claim 1, 15, 16, 20, 25, or 28.

In the paragraph on page 4 of the above-identified Office action, claims 1 to 6, 10 to 21, 24 to 29, 40 to 60, 65 to 67, 70 to 72, 75 to 77, 80 to 82, 85 to 87, 90 to 92, and 95 to 97 have been rejected as being obvious over United States Patent No. 6,099,558 to White et al. (hereinafter "White") in view of United States Patent No. 6,464,719 to Jayaraman under 35 U.S.C. § 103.

As will be explained below, it is believed that the claims were patentable over the cited art in their original form and, therefore, the claims have not been amended to overcome these references.

Before discussing the prior art in detail, it is believed that a brief review of the invention as claimed, would be helpful.

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Claim 1 calls for, *inter alia*, a vascular repair device,
including:

a curved longitudinal support member being substantially
symmetrical with respect to said longitudinal axis.

Claim 15 calls for, *inter alia*, a vascular repair device
including:

a curved longitudinal support member connected to said
graft body independent of said structural framework, having
a centerline parallel to said longitudinal axis, and being
substantially symmetrical with respect to said longitudinal
axis.

Claim 16 calls for, *inter alia*, a vascular repair device,
including:

a longitudinal support member having two ends, at least one
of said ends having a curved longitudinal extremity.

Claim 18 calls for, *inter alia*, a vascular repair device,
including:

a structural framework having at least two stents each
respectively connected to the tubular graft body adjacent a
proximal end and a distal end of the graft body and
defining a separation distance therebetween; and

a longitudinal support member shorter than the separation
distance and being connected to the graft body between the
two stents to form a gimbal at at least one of the proximal
and distal ends of the graft body.

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Claim 20 calls for, *inter alia*, a vascular repair device,
including:

a structural framework having at least two pairs of stents
each respectively connected to a graft body adjacent
proximal and distal ends of the graft body, the stents of
each of the pairs being separated from one another at the
graft body to define a respective outer stent and a
respective inner stent; and

a longitudinal support member extending between:

at least the inner stent of a first of the two pairs
of stents; and

at least an outer stent of a second of the two pairs
of stents.

Claim 25 calls for, *inter alia*, a vascular repair device,
including:

a structural framework having at least two pairs of stents
each respectively connected to a graft body adjacent
proximal and distal ends of the graft body, the stents of
each of the pairs being separated from one another at the
graft body to define a respective outer stent and a
respective inner stent; and

a curved longitudinal support member having two ends and
being connected to the graft body between both of the inner
stents of the two pairs of stents.

Claim 28 calls for, *inter alia*, a vascular repair device,
including:

a structural framework having at least three stents, two of
the stents adjacent a first end of a graft body separated
from one another to define an outer stent and an inner

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stent and a third stent connected adjacent a second end;
and

a longitudinal support member having two ends and being
connected between the inner stent and the third stent
without touching the inner stent and the third stent.

As set forth below, neither Jayaraman nor White, nor a combination thereof disclose or suggest the configurations set forth in any of the above claims. The differences between these claims and the two cited references will be discussed together in the paragraphs below.

Initially, it is noted that the Examiner admits "White et al. fail to disclose a longitudinal support member." Thus, White clearly is missing a required element of each of the above claims. In an attempt to make up for this clear deficiency and complete the rejection, the Examiner must *add* a feature of Jayaraman to White. Specifically, the Examiner states that "Jayaraman teaches (Fig. 8) a longitudinal support member 53" To support this combination, the Examiner merely states: "It would have been obvious to one of ordinary skill in the art to use curve longitudinal support members as taught by Jayaraman in the stent graft of White et al. such that it provides more support to the vessel walls and assist in expansion." Office

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action at page 5. **No further statements or proof are provided by the Examiner at all.**

It is well settled that almost all claimed inventions are but novel combinations of old features. The courts have held in this context, however, that when "it is necessary to select elements of various teachings in order to form the claimed invention, we ascertain whether there is any suggestion or motivation **in the prior art** to make the selection made by the applicant". *Interconnect Planning Corp. v. Feil*, 227 USPQ 543, 551 (Fed. Cir. 1985) (emphasis added). "Obviousness can not be established by combining the teachings of the prior art to produce the claimed invention, absent some teaching, suggestion or incentive supporting the combination". *In re Bond*, 15 USPQ2d 1566, 1568 (Fed. Cir. 1990). "Under Section 103 teachings of references can be combined **only** if there is some suggestion or incentive to do so." *ACS Hospital Systems, Inc. v. Montefiore Hospital et al.*, 221 USPQ 929, 933, 732 F.2d 1572 (Fed. Cir. 1984) (emphasis original). "Although a reference need not expressly teach that the disclosure contained therein should be combined with another, the showing of combinability, in whatever form, must nevertheless be '**clear and particular.**'" *Winner Int'l Royalty Corp. v. Wang*, 53 USPQ2d 1580, 1587, 202 F.3d 1340

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(Fed. Cir. 2000) (emphasis added; citations omitted); *Brown & Williamson Tobacco Corp. v. Philip Morris, Inc.*, 56 USPQ2d 1456, 1459 (Fed. Cir. Oct. 17, 2000). Applicants respectfully believe that there is no "clear and particular" teaching or suggestion in Jayaraman to incorporate the features of White, and there is no teaching or suggestion in White to incorporate the features of Jayaraman.

In establishing a *prima facie* case of obviousness, it is **incumbent upon the Examiner** to provide a reason why one of ordinary skill in the art would have been led to modify a prior art reference or to combine reference teachings to arrive at the claimed invention. *Ex parte Clapp*, 227 USPQ 972, 973 (Bd. Pat. App. & Int. 1985). To this end, the requisite motivation must stem from some teaching, suggestion, or inference in the prior art as a whole or from the knowledge generally available to one of ordinary skill in the art and not from the applicants' disclosure. See, for example, *Uniroyal, Inc. v. Rudkin-Wiley Corp.*, 837 F.2d 1044, 1052, 5 USPQ2d 1434, 1439 (Fed. Cir. 1988), *cert. den.*, 488 U.S. 825 (1988). **The Examiner has not provided** the requisite reason why one of ordinary skill in the art would have been led to modify Jayaraman or White or to

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combine Jayaraman's and White's teachings to arrive at the
claimed vascular repair device invention.

**The Examiner has the burden for satisfying the above
requirements.** But, the **Examiner has not shown the requisite
motivation** from some teaching, suggestion, or inference in
Jayaraman or White or from knowledge available to those skilled
in the art.

A critical step in analyzing the patentability of claims
pursuant to 35 U.S.C. § 103 is casting the mind back to the time
of invention, to consider the thinking of one of ordinary skill
in the art, guided only by the prior art references and the
then-accepted wisdom in the field. See *In re Dembiczak*, 175
F.3d 994, 999, 50 USPQ2d 1614,1617 (Fed. Cir. 1999). Close
adherence to this methodology is especially important in cases
where the very ease with which the invention can be understood
may prompt one "to fall victim to the insidious effect of a
hindsight syndrome wherein that which only the invention taught
is used against its teacher." *Id.* (quoting *W.L. Gore & Assocs.
Inc. v. Garlock, Inc.*, 721 F.2d 1540, 1553, 220 USPQ 303, 313
(Fed. Cir. 1983)).

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Applicants respectfully believe that any teaching, suggestion, or incentive possibly derived from the prior art is only present with hindsight judgment in view of the present application. "It is impermissible, however, simply to engage in a hindsight reconstruction of the claimed invention, using the applicant's structure as a template and selecting elements from references to fill the gaps. . . . The references **themselves** must provide some teaching whereby the applicant's combination would have been obvious." *In re Gorman*, 18 USPQ2d 1885, 1888 (Fed. Cir. 1991) (emphasis added). Here, no such teaching is present in the cited references.

Jayaraman does not have stents as defined in the instant application (see page 2, lines 9 to 14, citing U.S. Patent Nos. 5,282,824 and 5,507,771), let alone have the **two stents** required by the above-mentioned claims. Jayaraman does not even relate to prostheses that use stents or, especially, z-stents. Instead, the entire Jayaraman device is referred to as a stent. Merely because the title of Jayaraman uses the word "stent" does not mean that it relates to the kind of technology that utilizes the plurality of circumferential z-stents that is described in detail in the instant application. Accordingly, there can be no motivation anywhere within Jayaraman to implement the tubular

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stent technology of Jayaraman in a z-stent stent graft such as White.

The Examiner contends that the S-shaped connecting pieces 53 of Jayaraman would "provide more support to the vessel walls and assist in expansion" if added to White. This conclusion, however, is unsupported and incorrect. There would be no assistance in the expansion of the White stent graft if the connecting pieces 53 of Jayaraman were added to White. **In fact, the opposite is true**, as any relatively rigid pieces attached to the graft tube of White would not "assist" in expansion. At best, there would be no affect on expansion and, at worse, it would hinder expansion.

Jayaraman clearly discloses that many of the connecting pieces 53 must be disposed about the circumference of the tubular body. There is no suggestion to use only one of the connecting pieces 53 in Jayaraman in any way and, especially, there is no hint or suggestion in White to make such a drastic change in the Jayaraman device. In fact, if one were to add multiple connecting pieces 53 to White (which is what is actually disclosed by Jayaraman), the resulting hypothetical stent graft would be significantly or dangerously rigid about its

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longitudinal axis and would, therefore, *not be able to be implanted in curved vessels!* Such a hypothetical combination, therefore, would *defeat White's intended purpose.*

The Examiner cited FIG. 8 of Jayaraman for the feature that is added to White to form the combination rejection. It is significant to note that there is nothing to show or suggest in Jayaraman that the FIG. 8 prosthesis could ever function as a stent graft or even relate to a stent graft because there is no force applied by the connecting piece 53 that could ever assist in keeping the lumen of the material fabric tube 51 open after being implanted in a vessel. As such, it is respectfully believed that the combination of these two different features cannot be supported.

Claims 1 and 15 provide that the support member is substantially symmetrical with respect to a longitudinal axis of the device. White has no support members (see Office action at page 4, line 6). As can be clearly seen in every figure of Jayaraman, the two extreme ends of the connecting pieces 53 end are always on the same side. Therefore, with respect to a longitudinal extent of the connecting piece 53, there is no way that the connecting piece 53 can be symmetrical. See FIGS. 1, 3, 4, 7, and 8.

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The Examiner contends on page 4, lines 14 to 18:

Regarding the limitations that the support is symmetrical to the centerline of the graft, it is being interpreted that the middle of the graft is the centerline and thus half of the support is on one side and the other half on the opposite side. The support members [53] can also be said to be [be] symmetrical with respect to a centerline through itself." (Emphasis added by applicants.)

This statement is not only unsupported, it is contrary to the disclosure and meaning of "symmetrical" set forth in the present application. Further, the claims set forth a relationship that the support member is symmetrical with respect to the "longitudinal axis" of the graft body. Simply put, in the exemplary embodiments that relate to the claims of the present application, a part of the curved longitudinal support member is on one side of the centerline thereof and of the longitudinal axis and another part of the support member is on the other side, and these part are symmetrical with respect to the longitudinal axis. The Examiner seems to be trying to mischaracterize this disclosure and definition towards a meaning that the support members are symmetrical about a *transverse* centerline "through itself" (i.e., through a line that is *orthogonal* to the longitudinal extent of the connecting pieces 53. However, use of the word "longitudinal" in the claims of

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the present application requires the symmetry to be with respect to the longitudinal extent and not the transverse extent.

The Examiner contends with regard to claim 16 that the connecting pieces 53 have "looped ends 55." As set forth above, these ends are merely rounded. They do not have and are not "curved longitudinal extremities" as set forth in claim 16. The specification of the present application at page 37 provides:

the end of the longitudinal support member loops 47 back upon itself such that the end of the longitudinal support member along the axis of the stent graft is not sharp and, instead, presents an exterior of a circular or oval shape when viewed from the ends 12, 14 of the graft sleeve 10. Such a configuration substantially prevents the possibility of tearing the vessel wall and also provides additional longitudinal support at the oval shape by having two longitudinally extending sides of the oval 47.

There is a difference between "rounded" and curved. As "curved" is used in the present application, it means that the end traverses a curve. In contrast, the ends of 53 are straight with rounded edges. The rounded ends of the connecting pieces 53 are not curved and do not traverse a curve and, therefore, cannot suggest the curved extremities disclosed in claim 16. The Examiner contends that the part labeled "55" in Jayaraman is such a curved end. It is respectfully submitted that this

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reference numeral merely identifies the "holes" in the end of the pieces 53 for receiving a suture to connect the piece 53 to the graft. See Jayaraman at col. 4, line 24.

Claims 18, 20, 25, and 28 include features where a longitudinal support member has a length smaller than a distance between two stents to create a gimbal as in claim 18, for example. Neither Jayaraman nor White disclose or even suggest such a feature and, therefore, a combination of the two also do not suggest such a feature.

Clearly, the combination of Jayaraman and White do not suggest the vascular repair device as recited in claims 1, 15, 16, 18, 20, 25, or 28 of the present application.

It is accordingly believed to be clear that no reference or combination thereof suggest the features of claims 1, 15, 16, 18, 20, 25, or 28. Claims 1, 15, 16, 18, 20, 25, and 28 are, therefore, believed to be patentable over the art. The dependent claims are believed to be patentable as well because they all are ultimately dependent on claim 1, 15, 16, 18, 20, 25, or 28.

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In view of the foregoing, reconsideration and allowance
of claims 1 to 6, 10 to 21, 24 to 29, 40 to 60, 65 to 67,
70 to 72, 75 to 77, 80 to 82, 85 to 87, 90 to 92, and 95
to 97 are solicited.

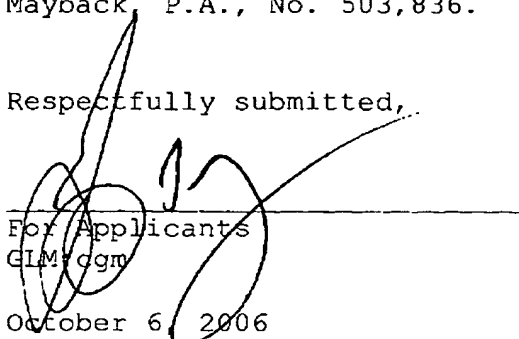
In the event the Examiner should still find any of the claims to
be unpatentable, counsel would appreciate receiving a telephone
call so that, if possible, patentable language can be worked
out.

If an extension of time for this paper is required, petition for
extension is herewith made.

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Please charge any fees that might be due with respect to
Sections 1.16 and 1.17 to the Deposit Account of Gregory L.
Mayback, P.A., No. 503,836.

Respectfully submitted,


For Applicants
GLM:cgm

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October 6 2006

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